EOS Aura Science Team Meeting 1-5 October 2007 Pasadena Convention Center - Pasadena, CA Agenda

Monday, 1 October 2007

8:00 - 9:00Registration

9:00 – 12:00 Working Group Meetings

Meteorological Products – Gloria Manney

Aerosols – Steve Massie

Education and Public Outreach – Brooke Carter

12:15 - 1:30 Lunch

1:30 – 5:00 Working Group Meetings

Validation – Lucien Froidevaux and Anne Douglass

Data Systems – Cheryl Craig

PI DINNER – Specifics to be provided at a later date

Tuesday, 2 October 2007

8:30 – 12:00 Working Group Meetings

Tropospheric WG – Air Quality from Space – Bryan Duncan and Ken Pickering Mission Operations – Angie Kelly

12:15 - 1:30 Lunch

Session Chair: Michelle Santee

1:30 – 1:35	Welcome and Logistics – Nathaniel Livesey
1:35 - 1:45	Introduction – Mark Schoeberl
1:45 - 2:00	NASA Headquarters – Ernie Hilsenrath
2:00-3:00	TES Reinhard Beer
	OMI Pieternel Levelt
	MLS Nathaniel Livesey
	HIRDLS John Gille / John Barnett
3:00 - 3:30	Break
3:30-3:45	Education and Public Outreach Report (Brooke Carter)
3:45-4:00	Comparison of HIRDLS and COSMIC GPS radio occultation temperature profiles (John Barnett)
4:00-4:15	OMI HCHO, BrO, and OCIO - Validation Status and Outlook (Thomas P. Kurosu)
4:15-4:30	Observing the diurnal variation of NOx chemistry and emissions from space (Folkert Boersma)
4:30-4:45	The Atmospheric Chemistry Experiment (ACE): After Four Years In-orbit (Kaley Walker)
4:45-5:00	Intercomparison of Middle Atmospheric Water Vapor Measurements from EOS-MLS, HALOE, and WVMS (Gerald Nedoluha)
5:00-5:15	Polar winter balloon-borne observations for Aura Validation (Robert Stachnik)
5:15-5:30	Nitric acid/ozone correlations as a tool for validating Aura MLS nitric acid retrievals in the upper troposphere and lower stratosphere (Peter Popp)

Wednesday, 3 October 2007

	Joanna Joiner and Kevin Bowman
8:15-8:30 8:30-8:45	Data Systems Working Group Report (Cheryl Craig) Validation of OMI Radiances in the Ultraviolet and Ozone Profiles with MLS
0.50-0.45	Data (Xiong Liu)
8:45-9:00	Comparison of NO2 in situ aircraft measurements with data from OMI (Eric Bucsela)
9:00-9:15	Validation of MLS OH measurements with FTUVS total OH column measurements at Table Mountain, California (S. Wang)
9:15-9:30	Direct sampling of tropospheric volcanic plumes in Ecuador and Colombia during TC4 (Simon Carn)
9:30-9:45	Comparison of Airborne Sunphotometer and OMI Retrievals of Aerosol Optical Depth during MILAGRO/INTEX-B (John Livingston)
9:45-10:00	Comparison of Aura HIRDLS and Envisat MIPAS Measurements - Case study (Christopher Hepplewhite)
10:00 – 10:15	Break
10:15-10:30	Mission Operations Working Group Report (Angie Kelly)
10:30:10:45	Balloon Borne Cryogenic Frostpoint Hygrometer Measurements in Support of Aura Water Vapor Validation (Holger Vömel)
10:45-11:00	North American Tropospheric Ozone Profiles from IONS (INTEX
	Ozonesonde Network Study, 2004, 2006): Aura Applications and Statistics for Pollution Comparisons (Anne M. Thompson)
11:00-11:15	HIRDLS Observations of Strat-Trop Exchange in Thin Laminae in the Sub- Tropical Jet Region (John Gille)
11:15-11:30	Variations in Stratospheric Cly Between 1991 and the present (David Lary)
11:30-11:45	Studying the subvortex in the lowermost stratosphere using new trace gas measurements from Aura MLS (Michelle Santee)
11:45-12:00	Stratospheric Ozone: Depletion and Recovery (Ross Salawitch)
12:00 - 1:30	Lunch
Session Chair:	Annmarie Eldering and Richard Stolarski
1:30-1:45	Aerosols/Clouds/SO ₂ Working Group Report (Steven Massie)
1:45-2:00	Temporal variability and wave activity from the tropical tropopause layer to 33 km: Radiosonde observations from Ticosonde/TC4, June-August 2007 (Henry Selkirk)
2:00-2:15	Impact of Recent Laboratory Measurements of the ClOOCl Absorption Cross Section On Our Understanding of Polar Ozone Chemistry (Tim Canty)
2:15-2:30	Tracer Correlations In the Tropopause Region Over the Pacific During INTEX-B: Statistical Comparisons of MLS and In Situ Tracer Measurement Distributions at 215 hPa (Melody Avery)
2:30-2:45	Gravity Waves and Equatorial Waves Observed by HIRDLS (M. Joan Alexander)
2:45-3:00	Validation Working Group Report (Lucien Froidevaux)
3:00 - 5:30	POSTER SESSION

Thursday, 4 October 2007

Session Chair:	Mark Schoeberl and John Worden
8:15-8:30	Meteorological Products Working Group Report (Gloria Manney)
8:30-8:45	TES Observations of Tropospheric Ozone as a Greenhouse Gas (Helen Worden)
8:45-9:00	PDFs of Upper Tropospheric Humidity: Measurements and Theory (Darryn
9:00-9:15	Waugh) The effects of convective ice lefting on U2O and UDO in the transcal
9:00-9:13	The effects of convective ice lofting on H2O and HDO in the tropical tropopause layer (TTL) (Andrew Dessler)
9:15-9:30	Results from Aura MLS and the in situ hygrometers during the Costa Rica AVE campaign on the annual cycles of tropical UTLS H2O and CO (William
	Read)
9:30-9:45	Optical effects of clouds on trace gas absorption (Joanna Joiner)
9:45-10:00	Global Distribution of Absorbing Aerosols as seen by OMI (Omar Torres)
10:00 – 10:30	Break
10:30-10:45 10:45-11:00	HIRDLS Observations of Subvisible Cirrus (Steven Massie) Aerosol Properties from OMI Measurements: Potential of the Multi- wavelength Algorithm (Ben Veihelmann)
11:00-11:15	Evaluation of the global hydrologic cycle with HDO measurements from TES (David Noone)
11:15-11:30	The effect of convection on the composition of the upper tropical troposphere as seen by MLS (Leonhard Pfister)
11:30-11:45	Near-real time OMI NO2 and the assimilation of satellite data with regional-scale air quality models for the Netherlands and Europe (Henk Eskes)
11:45-12:00	Global Ozone Determined from Assimilation of OMI and MLS Retrievals (Steven Pawson)
12:00 -12:15	Assessment of GEOS-Chem and GFDL AM2 models with assimilated TES observations: Implications for North American tropospheric ozone (Kevin Bowman)
12:15 - 1:30	Lunch
Session Chair:	Charles Jackman (co-chair TBD)
1:30-1:45	An overview of trace gas retrievals from AIRS (Fredrick W. Irion)
1:45-2:00	Towards understanding the impact of TTL cirrus clouds on troposphere-to- stratosphere transport (Hui Su)
2:00-2:15	A-Train Tropospheric Chemistry Observations on 30 August 2006 over the 2006 TexAQS/GoMACCS Study Area (Wallace McMillan)
2:15-2:30	Convective transport of surface pollution: New observations from the "A-Train" satellites (Jonathan H. Jiang)
2:30-2:45	Tropospheric Chemistry Working Group Report
2:45-3:00	Ground-level nitrogen dioxide concentrations inferred from OMI (Randell Martin)
3:00 – 3:30	Break

3:30-3:45	Recent increases in Asian emissions and consequences for transpacific ozone pollution in the United States: Aura and INTEX-B observations (Lin Zhang)
3:45-4:00	Analysis of TES Observations from the 2006 TexAQS/GoMACCS Campaign (Gregory Osterman)
4:00-4:15	Elevated tropical tropospheric ozone and CO during the 2006 El Niño from TES observations and GEOS-Chem simulations (Ray Nassar)
4:15-4:30	Interpreting Aura MLS observations of hydrogen cyanide using a chemistry transport model (Qian Li)
4:30-4:45	The effects of the 2006 El Niño on tropospheric composition as revealed by data from the Tropospheric Emission Spectrometer (TES) (Jennifer Logan)
4:45-5:00	On inferring urban and agricultural NOx emissions from space (Ronald Cohen)
5:00-5:15	TES and OMI observations to study chemical evolution of Siberian Boreal fire plumes (Sunita Verma)

Friday, 5 October 2007

Session Chair: Jacquie Witte (co-chair TBD)

8:15-8:30	Improved temporal constraints on and vertical injections of biomass burning emissions: Implications on global aerosol simulation (Yang Chen)
8:30-8:45	Convective Events OMI Tropospheric NO2 from Lightning in Observed
	(Kenneth Pickering)
8:45-9:00	Understanding Synoptic Controls on North American Pollutant Export using
	TES Observations (Jennifer Hegarty)
9:00-9:15	Observations of The Middle East Ozone "Maximum" (John Worden)
9:15-9:30	Spatial distribution of isoprene emissions from North America derived from
	formaldehyde column measurements by the OMI satellite sensor (Dylan
	Millet)
9:30-9:45	Constraints on the lightning NOx emissions over the USA using TES, NLDN,
	IONS data and the GEOS-Chem model (Line Jourdain)
9:45-10:00	A Satellite Perspective on the Interhemispheric Transport of Pollution
	(Chenxia Cai)
10:00-10:15	Analysis of OMI Tropospheric NO2 data for Northwestern Europe
	(Pepijn Veefkind)

ACTION ITEMS FINAL ANNOUNCEMENTS

11:00 - ADJOURN